

1 CLAIMS

2 What is claimed is:

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4 Claim 1. A method of extending survival and/or delaying disease progression by
5 treating a human tumor in a mammal, wherein said tumor expresses an antigen which
6 specifically binds to a monoclonal antibody or antigen binding fragment thereof which has
7 the identifying characteristics of a monoclonal antibody encoded by a clone deposited with
8 the ATCC as accession number PTA-5691 comprising administering to said mammal said
9 monoclonal antibody in an amount effective to reduce said mammal's tumor burden,
10 whereby disease progression is delayed and/or survival is extended.

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12 Claim 2. The method of claim 1 wherein said antibody is conjugated to a cytotoxic
13 moiety.

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15 Claim 3. The method of claim 2 wherein said cytotoxic moiety is a radioactive
16 isotope.

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18 Claim 4. The method of claim 1 wherein said antibody activates complement.

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20 Claim 5. The method of claim 1 wherein said antibody mediates antibody
21 dependent cellular cytotoxicity.

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23 Claim 6. The method of claim 1 wherein said antibody is a murine antibody.

1 Claim 7. The method of claim 1 wherein said antibody is a humanized antibody.

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3 Claim 8. The method of claim 1 wherein said antibody is a chimerized antibody.

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5 Claim 9. An isolated monoclonal antibody encoded by the clone deposited
6 with the ATCC as PTA-5691.

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8 Claim 10. The antibody of claim 9, which is a humanized antibody.

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10 Claim 11. The antibody of claim 9, which is a chimerized antibody.

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12 Claim 12. Antigen binding fragments of the isolated monoclonal antibody of
13 claim 9.

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15 Claim 13. Antigen binding fragments of the humanized antibody of claim 10.

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17 Claim 14. Antigen binding fragments of the chimerized antibody of claim 11.

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19 Claim 15. The isolated antibody or antigen binding fragments of any one of
20 claims 9,10,11,12,13 or14 conjugated with a member selected from the group consisting of

1 cytotoxic moieties, enzymes, radioactive compounds, and hematogenous cells;

2 whereby antibody conjugates are formed.

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4 Claim 16. The isolated clone deposited with the ATCC as PTA-5691.

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6 Claim 17. A binding assay to determine presence of cancerous cells in a tissue
7 sample selected from a human tumor comprising:

8 providing a tissue sample from said human tumor;

9 providing an isolated monoclonal antibody encoded by the clone deposited with the
10 ATCC as PTA-5691, or an antigen binding fragment thereof, or an antibody conjugate
11 thereof;

12 contacting said isolated monoclonal antibody or antigen binding fragment thereof
13 or antibody conjugate thereof with said tissue sample; and

14 determining binding of said isolated monoclonal antibody or antigen binding
15 fragment thereof or antibody conjugate thereof with said tissue sample;

16 whereby the presence of said cancerous cells in said tissue sample is indicated.

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18 Claim 18. The binding assay of claim 17 wherein the human tumor tissue
19 sample is obtained from a tumor originating in a tissue selected from the group consisting
20 of ovarian and breast tissue.

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2 Claim 19. A process of isolating or screening for cancerous cells in a tissue
3 sample selected from a human tumor comprising:

4 providing a tissue sample from said human tumor;

5 providing an isolated monoclonal antibody encoded by the clone deposited with the
6 ATCC as PTA-5691, or an antigen binding fragment thereof, or an antibody conjugate
7 thereof;

8 contacting said isolated monoclonal antibody or antigen binding fragment thereof
9 or antibody conjugate thereof with said tissue sample; and

10 determining binding of said isolated monoclonal antibody or antigen binding
11 fragment thereof or antibody conjugate thereof with said tissue sample;

12 whereby said cancerous cells are isolated by said binding and their presence in said
13 tissue sample is confirmed.

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15 Claim 20. The process of claim 19 wherein the human tumor tissue sample is
16 obtained from a tumor originating in a tissue selected from the group consisting of ovarian
17 and breast tissue.

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19 Claim 21. An isolated monoclonal antibody encoded by the clone deposited
20 with the ATCC as Accession Number PTA-5690.

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1 Claim 22. The antibody of claim 21, which is a humanized antibody.

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3 Claim 23. The antibody of claim 21, which is a chimerized antibody.

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5 Claim 24. Antigen binding fragments of the isolated monoclonal antibody of
6 claim 21.

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8 Claim 25. Antigen binding fragments of the humanized antibody of claim 22.

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10 Claim 26. Antigen binding fragments of the chimerized antibody of claim 23.

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13 Claim 27. The isolated antibody or antigen binding fragments of any one of
14 claims 21,22,23,24,25 or 26 conjugated with a member selected from the group consisting
15 of cytotoxic moieties, enzymes, radioactive compounds, and hematogenous cells;

16 whereby antibody conjugates are formed.

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19 Claim 28. The isolated clone deposited with the ATCC as Accession Number
20 PTA-5690.

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2 Claim 29. A binding assay to determine presence of cancerous cells in a tissue
3 sample selected from a human tumor comprising:

4 providing a tissue sample from said human tumor;

5 providing an isolated monoclonal antibody encoded by the clone deposited with the
6 ATCC as Accession Number PTA-5690 or antigen binding fragment thereof; or an antibody
7 conjugate thereof;

8 contacting said isolated monoclonal antibody or antigen binding fragment thereof or
9 antibody conjugate thereof with said tissue sample; and

10 determining binding of said isolated monoclonal antibody or antigen binding fragment
11 thereof or antibody conjugate thereof with said tissue sample;

12 whereby the presence of said cancerous cells in said tissue sample is indicated.

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14 Claim 30. The binding assay of claim 29 wherein the human tumor tissue sample
15 is obtained from a tumor originating in a tissue selected from the group consisting of colon
16 tissue.

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18 Claim 31. A process of isolating or screening for cancerous cells in a tissue sample
19 selected from a human tumor comprising:

20 providing a tissue sample from a said human tumor;

1 providing an isolated monoclonal antibody encoded by the clone deposited with the
2 ATCC as Accession Number PTA-5690 or antigen binding fragment thereof; or an antibody
3 conjugate thereof;

4 contacting said isolated monoclonal antibody or antigen binding fragment thereof or
5 antibody conjugate thereof with said tissue sample; and

6 determining binding of said isolated monoclonal antibody or antigen binding fragment
7 thereof or antibody conjugate thereof with said tissue sample;

8 whereby said cancerous cells are isolated by said binding and their presence in said
9 tissue sample is confirmed.

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11 Claim 32. The process of claim 31 wherein the human tumor tissue sample is
12 obtained from a tumor originating in a tissue selected from the group consisting of colon
13 tissue.

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